



The Explainable AI Special Interest Group at the GWU Biomedical Informatics Center Presents

Variable Importance Scores

Eduardo A. Trujillo Rivera, PhD
The George Washington University
Washington, DC

Date: Thursday, August 4th, 2022

Time: noon – 1:00 pm Eastern Daylight Time

Join via WebEx:

<https://gwu.webex.com/gwu/j.php?MTID=m8b6839359b86ff09b9972e485b877376>

In this meeting of the Explainable Artificial Intelligence Special Interest Group Dr. Trujillo Rivera will discuss a paper by Wei-Yin Loh and Peigen Zhou (accessible through [https://jds-](https://jds-online.org/journal/JDS/article/1250/info)



[online.org/journal/JDS/article/1250/info](https://jds-online.org/journal/JDS/article/1250/info)). In this paper, Loh and Zhou compare the performance of several variable importance scores used in predictive modeling. They observe deficiencies in some of the scoring methods, and propose a modification of the GUIDE algorithm to ensure an unbiasedness score.

Dr. Trujillo Rivera received a B.S. in Mathematics at the University of Guanajuato in a joint program with the Center for Research in Mathematics, Mexico (CIMAT by its acronym in Spanish). He obtained his Ph.M. in Probability and Statistics in the Center for Research in Mathematics where he worked as an instructor and as an assistant to professors. He received his Ph.D. in Statistics from the Iowa State University where he completed his dissertation in nonparametric regression models with errors in variables; at the same time, he worked as a teaching assistant for statistic courses, as a research assistant in projects with the Department of Transportation of Iowa, and developed nonparametric methods to study biomarker data as health indicators. Currently, Dr. Trujillo Rivera works as Research Assistant Professor in the Biomedical Informatics Center at the George Washington University in joint projects with the VA Medical Center. Dr Trujillo Rivera uses his expertise on statistical and machine learning modeling for inference and predictive purposes on medical data.

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For more information, please contact lizworkman@gwu.edu